Attorney Docket No. 8932-1178-999

AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions and listings of claims in the

application:

1-18. (cancelled).

19. (previously presented) A device for the treatment of femoral fractures comprising:

an intramedullary pin having a first longitudinal axis, a proximal portion, a distal

portion, and at least one transverse opening through the proximal portion of the pin, the at

least one transverse opening forming an oblique angle with the first longitudinal axis and

having a non-circular cross-section;

a bone fixation element having a second longitudinal axis, a first end, a second end,

and a shaft, the first end configured and dimensioned to engage bone in the femoral head,

a sliding sleeve having a central bore, an interior surface profile, and an exterior

surface profile, the central bore and interior surface profile configured to receive the shaft of

the bone fixation element while permitting free rotation of the bone fixation element relative

to the sleeve, and the exterior surface profile having at least a portion with a non-circular

cross-section adapted to mate with the non-circular cross-section of the transverse opening,

thereby preventing rotation of the sleeve with respect to the intramedullary pin; and

a locking mechanism configured and adapted to selectively lock rotation of the bone

fixation element relative to the sleeve when in a first position and permit free rotation of the

bone fixation element relative to the sleeve when in a second position.

20. (previously presented) The device of claim 19, wherein the bone fixation element,

sliding sleeve and locking mechanism are adapted for insertion through the transverse

opening in the pin as a single preassembled unit.

21. (previously presented) The device of claim 19, wherein the second end of the bone

fixation element includes a longitudinal bore.

22. (previously presented) The device of claim 21, wherein the longitudinal bore at the

second end of the bone fixation element is at least partially threaded.

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23. (previously presented) The device of claim 22, wherein the locking mechanism is a

fixing screw having a screw head with a diameter D and a screw shank with a diameter d

having an outside thread, where D > d.

24. (previously presented) The device of claim 23, wherein the outside thread of the

fixing screw shank corresponds to the threaded bore of the bone fixation element, and

progressive tightening of the fixing screw within the threaded bore rotationally locks the bone

fixation element with the sliding sleeve, thereby preventing rotation of the bone fixation

element relative to the sliding sleeve.

25. (previously presented) The device of claim 19, wherein the bone fixation element is

axially fixed relative to the sliding sleeve.

26. (previously presented) The device of claim 25, wherein the shaft of the bone fixation

element includes a first annular groove and the internal surface profile of the sliding sleeve

includes a second annular groove, and a ring element engages both the first and second

annular grooves to prevent axial displacement of the shaft relative to the sliding sleeve.

27. (previously presented) The device of claim 19, wherein a rear end of the sliding

sleeve extends a distance x past the second end of the bone fixation element, where x is at

least 0.01 mm.

28. (previously presented) The device of claim 19, wherein the second end of the bone

fixation element includes an externally threaded portion.

29. (previously presented) The device of claim 28, wherein the locking mechanism is a

nut with an internal thread that corresponds to the externally threaded portion at the second

end of the bone fixation element.

30. (previously presented) The device of claim 19, wherein the first end of the bone

fixation element includes a helical blade.

31. (previously presented) The device of claim 19, wherein the first end of the bone

fixation element includes a screw thread, a chisel, a pin, a T-section or a double T-section.

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32. (previously presented) The device of claim 19, wherein the first end of the bone

fixation element includes a plurality of helical blades.

33. (previously presented) The device of claim 30, wherein the helical blade has a pitch

of at least 50 mm.

34. (previously presented) The device of claim 19, wherein the locking mechanism is

adapted to limit axial displacement of the sliding sleeve relative to the intramedullary pin.

35. (previously presented) The device of claim 19, wherein the bone fixation element is a

screw.

36. (previously presented) The device of claim 19, wherein the external surface profile of

the sliding sleeve includes a longitudinal projection that mates with a longitudinal recess in

the transverse opening.

37. (currently amended) A device for the treatment of femoral fractures comprising:

an intramedullary pin having a first longitudinal axis, a proximal portion, a distal

portion, and at least one transverse opening through the proximal portion of the pin, the at

least one transverse opening forming an oblique angle with the eentral first longitudinal axis

and having a non-circular cross-section;

a cross-member configured for insertion through the transverse opening to engage

bone in the femoral head, the cross-member including:

a sliding sleeve having a central bore, a circular interior surface profile, and a

non-circular exterior surface profile, the exterior surface profile adapted to mate with the non-

circular cross-section of the transverse opening, thereby preventing rotation of the sleeve with

respect to the intramedullary pin,

a bone fixation element having a first end, a second end, and a shaft, the first

end configured and dimensioned to engage bone in the femoral head, and the shaft configured

and dimensioned for free rotation within the central bore of the sliding sleeve, and

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a locking mechanism configured and adapted to selectively lock rotation of the

bone fixing element relative to the sleeve when in a first position and permit free rotation of

the bone fixing element relative to the sleeve when in a second position.

38. (previously presented) The device of claim 37, wherein the cross-member is adapted

for insertion through the transverse opening in the pin as a single preassembled unit.

39. (previously presented) The device of claim 37, wherein the first end of the bone

fixation element includes a helical blade.

40. (previously presented) The device of claim 37, wherein the bone fixation element is a

screw.